UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,896	02/04/2004	Jason Evan Schleifer	50037.206US01	3894

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EXAMINER
FATEHI, PARHAM R

ART UNIT	PAPER NUMBER
2194	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on *16 April 2007*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-22* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-22* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 1 – 22 are pending. Applicant has amended claims 1, 10 & 17.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

3.   **Claims 1, 10 & 17 are rejected under 35 U.S.C. 103(a) as being unpatentable**

over Swierk et Al., "The Roma Personal Metadata Service." Mobile Networks and

Applications; 7, 2002; pgs. 407-418 [hereafter Swierk] in view of Masek (US

20050165884) [hereafter Masek].

4.   As per Claim 1, Swierk discloses a method for synchronizing a device with data

sources and allowing cross-pollination of the data sources (Page 408, Par. 5-7 & Page

409, Par. 5, Figure 1, the system can be used for synchronization and transfer of data

between sources for synchronization or version management purposes); creating a first

data source and a second data source (Page 408, Par. 5-7 & Page 409, Par. 5, as in

Figure 1, a device can create two data sources such as a desktop and a laptop);

connecting the device to a first data source (Page 408, Par. 5-7 & Page 409, Par. 5, as

in Figure 1, the device can connect to a first data source such as a desktop);

synchronizing the device with the first source (Page 408, Par. 5-7 & Page 409, Par. 5,

Figure 1, the device can synchronize with the first source); connecting the device to a

second source (Page 408, Par. 5-7 & Page 409, Par. 5, as in Figure 1, a device can

connect to a second source such as a laptop); and synchronizing the device with the

second source, wherein the device may be used to cross-pollinate between the first

data source and the second data source (Page 408, Par. 5-7 & Page 409, Par. 5, as in

Figure 1, system allows for synchronization and cross-pollination between device and

first and second sources).

5.   Swierk fails to explicitly disclose determining items to synchronize between the

first data source, the second data source and the device, such that the device and the

first source each include a same version of the items after synchronizing and such that

the first data source, the second data source and the device each include the same

version of the items after synchronizing and cross-pollinating.

6.   Whereas, Masek teaches synchronizing a file between all of the different

devices, including mobile devices in order to increase the efficiency of a system by

allowing updates at one location to be reflected at another location, thereby replicating

versions across all system devices. One of ordinary skill in the art at the time the

invention was made would have modified the teachings of Swierk to include the method

of multiple device synchronization and cross-pollination as taught by Masek in order to

make the version management of software systems more efficient and to save time for

users of multiple devices.

7.   As per Claim 10, Swierk discloses A computer-readable medium for cross-

pollinating data sources (Page 413, Par. 2-3, "agent is written in C" and inherently is

stored on a computer-readable storage medium. The agent allows for cross-pollinating

of data sources as in Page 409, Par. 5 & Figure 1); Creating at least two data sources

to synchronize with a device (Page 408, Par. 5-7 & Page 409, Par. 5, as in Figure 1,

system allows for creating a plurality of data sources such as laptop, desktop, kiosk,

etc.); Synchronizing the device with the at least two data sources (Page 408, Par. 5-7 &

Page 409, Par. 5, as in Figure 1, system allows for synchronizing and version

management and file distribution between device and a plurality of data sources such

as laptop, desktop, kiosk, etc.); And cross-pollinating data between the at least two data

sources (Page 408, Par. 5-7 & Page 409, Par. 5, as in Figure 1, system allows for

synchronizing, version management, file distribution, and cross-pollination between

device and a plurality of data sources such as laptop, desktop, kiosk, etc.).

8.   Swierk fails to explicitly disclose determining items to synchronize between the at

least two data sources and the device, such that the at least two data sources and the

device include the same version of the items after synchronizing and cross-pollinating.

9.   Whereas, Masek teaches synchronizing a file between all of the different

devices, including mobile devices in order to increase the efficiency of a system by

allowing updates at one location to be reflected at another location, thereby replicating

versions across all system devices. One of ordinary skill in the art at the time the

invention was made would have modified the teachings of Swierk to include the method

of multiple device synchronization and cross-pollination as taught by Masek in order to

make the version management of software systems more efficient and to save time for

users of multiple devices.

10.   As per Claim 17, Swierk discloses A system for cross-pollinating data sources

(Page 408, Par. 5-7 & Page 409, Par. 5, as in Figure 1, system allows for synchronizing,

version management, file distribution, and cross-pollination between device and a

plurality of data sources such as laptop, desktop, kiosk, etc.); At least two data sources

that may cross-pollinate each other (Page 408, Par. 5-7 & Page 409, Par. 5, as in

Figure 1, system allows for synchronizing, version management, file distribution, and

cross-pollination between device and a plurality of data sources such as laptop,

desktop, kiosk, etc.); A device that is configured to act a shuttle between the at least two

data sources to cross-pollinate, and that is configured to synchronize with the at least

two data sources (Page 408, Par. 5-7 & Page 409, Par. 5, as in Figure 1, system allows

for synchronizing, version management, file distribution, and cross-pollination between

device and a plurality of data sources such as laptop, desktop, kiosk, etc and acts as a

shuttle between the devices).

11.   Swierk fails to explicitly disclose such that after synchronizing and cross-

pollinating, the device and the at least two data sources a same version of items that

were selected to be synchronized.

12.   Whereas, Masek teaches synchronizing a file between all of the different

devices, including mobile devices in order to increase the efficiency of a system by

allowing updates at one location to be reflected at another location, thereby replicating

versions across all system devices. One of ordinary skill in the art at the time the

invention was made would have modified the teachings of Swierk to include the method

of multiple device synchronization and cross-pollination as taught by Masek in order to

make the version management of software systems more efficient and to save time for

users of multiple devices.

13.   **Claims 2-9, 11-16, & 18-22 are rejected under 35 U.S.C. 103(a) as being**

unpatentable over Swierk in view Masek, and further in view of Peng (US Patent

6,317,754).

14.   As per Claim 2, the system of Swierk in view of Masek substantially teaches the

invention as claimed but fails to disclose performing a duplicate detection check to

determine when an item has been synchronized.

15.   Whereas Peng discloses a duplicate detection check occurs in the synchronization process to determine if updating is necessary (col. 3, ln. 65 – 67). One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in view Masek to include the method of utilizing a duplicate detection check as taught by Peng in order to avoid unnecessarily copying data that is already synchronized and unnecessarily utilizing processing time for copying the data.

16.   As per Claim 3, the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose duplicate detection check further comprises performing a property comparison.

17.   Whereas, Peng discloses a detection check that consists of a comparison of versions and properties (col. 6, ln. 7 – 10). One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in view of Masek to include the method of property comparison as taught by Peng in order to provide increase efficiency by using a methodological system by which the system can deem whether an update/copy is or is not necessary.

18.   As per Claim 4, the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose performing the duplicate detection check further comprises calculating a sync hash value.

19.   Whereas, Peng discloses identifiers/properties that the comparisons are run on can be assigned to the hash codes which are generated by a one-way hash function (col. 13, ln. 64 – 67). One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in view of Masek to include the method of incorporating the values in the conventional manner as taught by Peng in order to easily and efficiently manage and reference objects or data in the synchronization system.

20.   As per Claim 5, the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose updating the item when the item has already been synchronized.

21.   Whereas, Peng discloses the unit of transmitted data may be a differential update. This is distinguished from the prior art systems which must transmit the whole item as the unit of transmitted data (Col 4, ln. 2 – 6).

22.   One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in view of Masek to include the method of updating the item when the item has already been synchronized as taught by Peng in order to speed up the synchronizing process and not waste processing power or time.

23.   As per Claim 6, the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose receiving a delete command and performing

the delete command, wherein the delete command is selected from a soft delete and a

hard delete.

24.   Whereas, Peng discloses propagated deletes and local deletes (col. 5, ln. 18 –

24). One of ordinary skill in the art at the time the invention was made would have

modified the teachings of Swierk in view of Masek to include the method of using a soft

delete command and a hard delete command in order to increase functionality of a

synchronization system in order to present the user with an option of synchronizing

deletes with devices or to delete locally while allowing specific data to be

synchronized/updated/copied to specific connected devices.

25.   As per Claim 7, the system of Swierk in view of Masek substantially teaches the

invention as claimed but fails to disclose restricting cross-pollination between data

sources.

26.   Whereas, Peng discloses may or may not (restricting) allow synchronization

between the servers (see Abstract). One of ordinary skill in the art at the time the

invention was made would have modified the teachings of Swierk in view of Masek to

include the method of using a switch that enables restricting of cross-pollination

between data sources in order to have an option of not allowing all devices to mirror

each other and instead having certain data exist on a certain device and other specific

data to exist on the other device (i.e. A children's PC should have children's games while the Home PC should have all the word processing data).

27.   As per Claim 8, the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose wherein creating the first data source and the second data source further comprises indicating a data source type and storing an identifier associated with each of the first data source and second data source.

28.   Whereas, Peng discloses all sources have identifiers and types (see col. 3, line 18 – 20). One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in view of Masek to include the method of indicating a data source type and stored an identifier in order to track the data that should be specific to each data source.

29.   As per Claim 9; the system of Swierk in view of Masek substantially teaches the invention as claimed but fails to disclose synchronizing the device with the first data source may use a first synchronization protocol and synchronizing the device with the second protocol may use a second synchronization protocol.

30.   Whereas, Peng discloses each of the synchronizers users a different type of communications transport and protocol (Col. 14, In. 3 – 9). One of ordinary skill in the art at the time the invention was made would have modified the teachings of Swierk in

view of Masek to include the method of using a different type of synchronization

protocol for each data source in order to suit the system with versatility in data

transmissions.

31.   As per Claim 12, it is a system claim with same limitations as method claim 3 and

is rejected under the same reasons.

32.   As per Claims 13 & 20, they are system claims with the same limitations as the

method claim 6 and are rejected under the same reasons.

33.   As per Claims 14 & 21, they are system claims with the same limitations as the

method claim 7 and is rejected under the same reasons.

34.   As per Claim 15, it is a system claim with the same limitations as the method

claim 8 and is therefore rejected under the same reasons.

35.   As per Claim 16 & 22, it is a system claim with the same limitations as the

method claim 9 and is therefore rejected under the same reasons.

36.   As per Claim 18, it is a system claim with the same limitations as the method

claim 11 and is therefore rejected under the same reasons.

37.   As per Claim 19, it is a system claim with the same limitations as the method

claim 4 and is therefore rejected under the same reasons.

Response to Arguments

38.   Applicant's arguments filed 4/16/2007 have been fully considered but they are

not persuasive.

Conclusion

39.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

40.   A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later
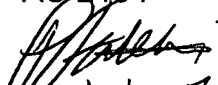
than SIX MONTHS from the date of this final action.

41.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Parham (Paul) R. Fatehi whose telephone number is

571-270-1407. The examiner can normally be reached on M-Th 9:30AM-8PM EST, off

Fridays.

42.   If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Thomson can be reached on (571)272-3718. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

43.   Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Paul Fatehi
AU 2194

7/9/2007

WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER